AN/PRC-112

SYSTEM IDENTIFIERS	
NOMENCLATURE:	Radio Set, Personal
SSN:	J03201
LIN:	R82903
NSN:	5820-01-279-5450
AMIM NO:	S807
EIC:	JBG
FUEL TYPE:	-----

SYSTEM DESCRIPTION

Weighing 0.8 kg and capable of fitting in the palm of the hand, the AN/PRC-112 radio performs the normal survival functions of beacon/voice operations and also acts as a transponder supplying location and personnel identification information. The AN/PRC-112 features a number of improvements over the AN/PRC-90: broadband UHF frequency coverage; channelized 25 kHz frequency operation; transponder for ranging; individual ID codes; custom-designed LSI circuits to reduce size, weight, and power consumption; increased transmitter output power; improved reliability; modular construction; extended battery life; and multi-mode AM or swept-tone beacon operation.

The list below identifies components associated with the weapon/materiel system.

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LIN	NSN	NOMENCLATURE
P04582	7025-01-279-5308	PROGRAM LOADER RADIO SET: KY-913/PR

This summary provides an overview of FY 95 Total Army operating and support costs and other information for the weapon system. Average cost per system is displayed so the data can be used in performing analytical and cost studies. Average costs are calculated using the end item's density. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

AN/PRC-112
FY 95 TOTAL ARMY COST SUMMARY
(FY 95 Constant Dollars)

DENSITY

NUMBER OF SYSTEMS	3,570

DEPOT END ITEM MAINTENANCE (5.061)

OMA TOTAL	$86,134
QUANTITY COMPLETED	124
AVG COST/END ITEM	$694.63
PROC (MODIFICATIONS)	$70

CLASS III-POL (5.05)

NOT APPLICABLE

DEPOT SECONDARY ITEM MAINTENANCE

DBOF TOTAL	$70
QUANTITY COMPLETED	0
AVG COST/SECONDARY ITEM	$0.00

CLASS V-AMMUNITION (2.11)

NOT APPLICABLE

INTERMEDIATE MAINTENANCE

	DS/GS	CIVILIAN
MIL/CIV LABOR COST	$25,776	$4,968
AVG COST/SYSTEM	$7.22	$3.38
MAINTENANCE MANHOURS	1,518	225
MMHs/SYSTEM	0.43	0.15

CLASS IX MATERIEL-PARTS (5.04/5.03)

	FY 95 DOLLARS	AVG COST PER SYSTEM
CONSUMABLES	$241,911	$67.76
NET REPARABLES	$171,217	$47.96
NET TOTAL COSTS	$413,128	$115.72

The following graph and table display FY 95 Class IX costs for consumables (CONS), reparables, (REPS), and net reparables (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM.

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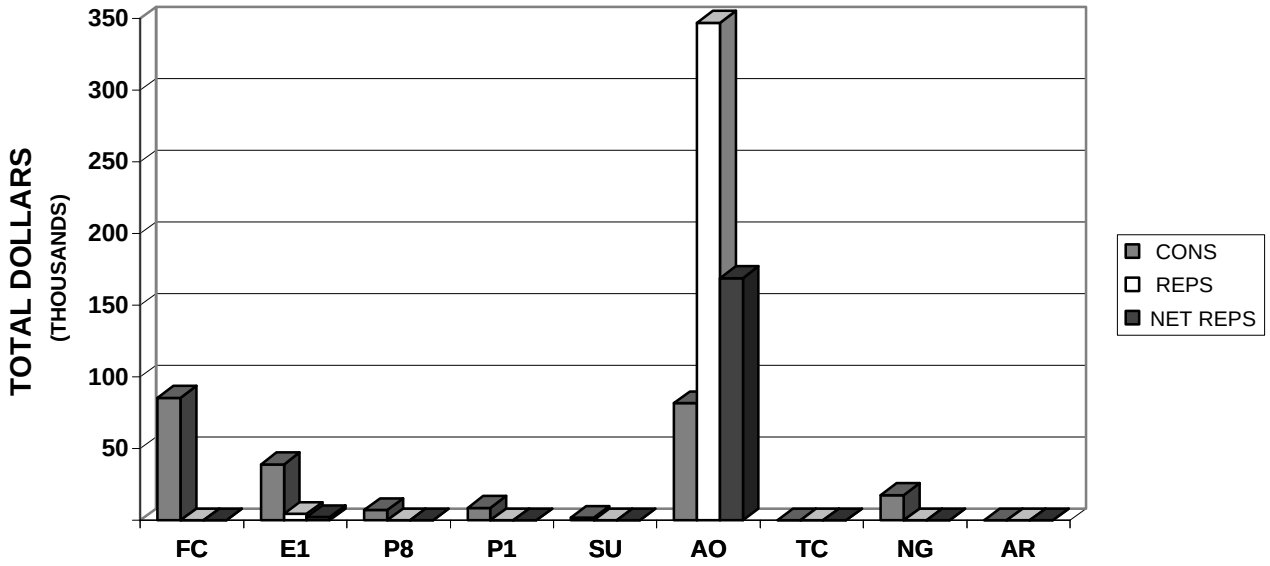
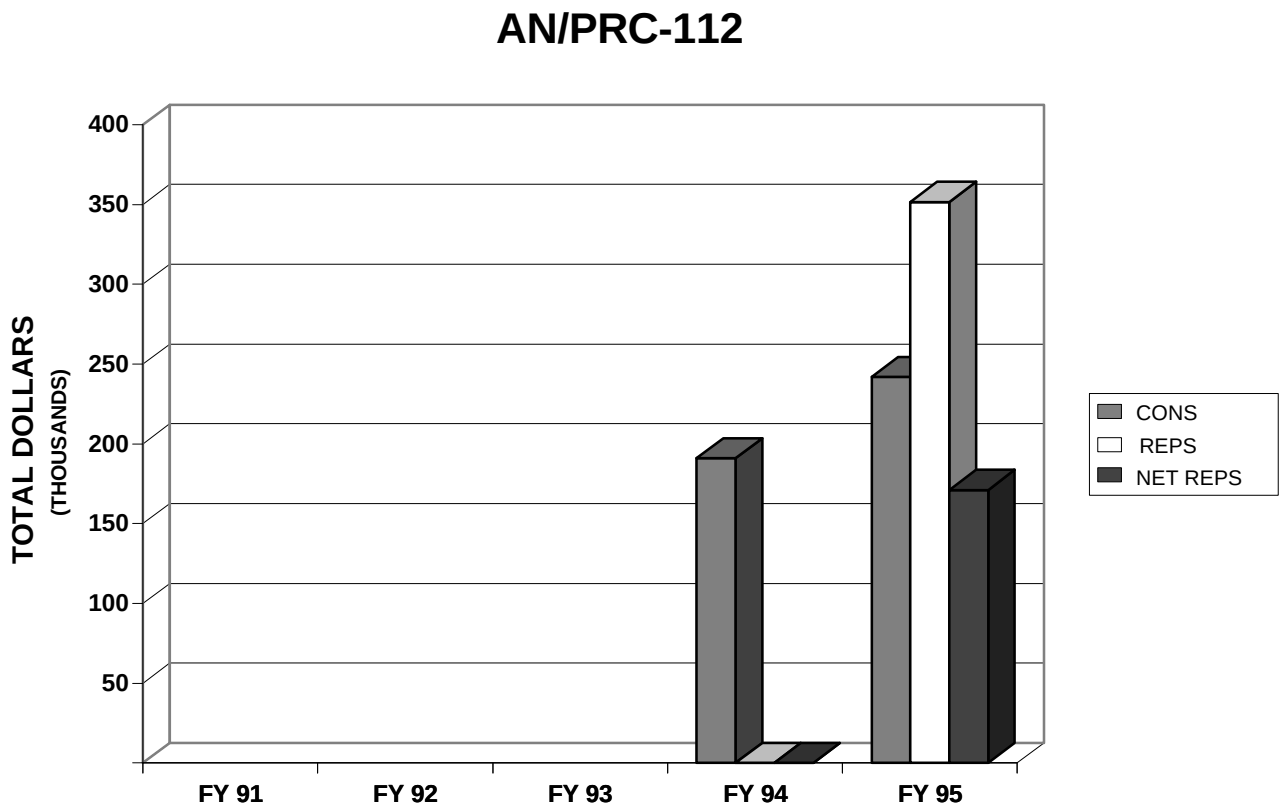


AN/PRC-112
FY 95 MACOM CLASS IX COSTS

MACOM CODE	MACOM NAME	CONS	REPS	NET REPS	NET TOTAL COSTS	NUMBER OF SYSTEMS	AVG PER SYSTEMS
FC	FORSCOM	85,475	0	0	85,475	1,470	58
E1	USAREUR	39,054	4,626	2,253	41,307	557	74
P8	EUSA	7,264	0	0	7,264	299	24
P1	USARPAC	8,774	0	0	8,774	160	55
SU	USARSO	1,827	0	0	1,827	61	30
AO	USASOC	81,747	346,950	168,964	250,711	890	282
TC	TRADOC	0	0	0	0	0	0
NG	ARNG	17,770	0	0	17,770	133	134
AR	USAR	0	0	0	0	0	0
TA	TOTAL ARMY	241,911	351,576	171,217	413,128	3,570	116

The following graph and table display FY 91-95 Class IX costs for consumables (CONS), reparables (REPS) and net reparables (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database during that fiscal year.



AN/PRC-112 FIVE YEAR TOTAL ARMY CLASS IX COSTS						
FISCAL YEAR	CONS	REPS	NET REPS	NET TOTAL COSTS	NUMBER OF SYSTEMS	AVG PER SYSTEMS
FY 91						
FY 92						
FY 93						
FY 94	190,978	0	0	190,978	1,815	105
FY 95	241,911	351,576	171,217	413,128	3,570	116

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 95 WBS Class IX costs for consumables (CONS) and reparables (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army.

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FY 95 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS

WBS	NAME	CONS	REPS	NET REPS	NET TOTAL COSTS	NUM OF SYSTEMS	AVG PER SYSTEM
01	FRONT END (SENSOR)	0	0	0	0	0	0
02	PROCESSING (ADPE)	0	0	0	0	0	0
03	COMMUNICATIONS	40,404	351,576	171,217	211,621	3,570	59
04	PERIPHERALS	0	0	0	0	0	0
05	ENVIRON SUPPORT	0	0	0	0	0	0
06	APPS SOFTWARE	0	0	0	0	0	0
07	SYST SOFTWARE	0	0	0	0	0	0
08	INTEG, ASSY, TEST	0	0	0	0	0	0
09	OTHER	201,507	0	0	201,507	3,570	56
	TOTAL	241,911	351,576	171,217	413,128	3,570	116

The following table displays FY 91-95 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are the summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

AN/PRC-112
FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS

WBS	NAME	FY 91 NET TOTAL COSTS	FY 92 NET TOTAL COSTS	FY 93 NET TOTAL COSTS	FY 94 NET TOTAL COSTS	FY 95 NET TOTAL COSTS
01	FRONT END (SENSOR)				0	0
02	PROCESSING (ADPE)				0	0
03	COMMUNICATIONS				4,786	211,621
04	PERIPHERALS				0	0
05	ENVIRON SUPPORT				0	0
06	APPS SOFTWARE				0	0
07	SYST SOFTWARE				0	0
08	INTEG, ASSY, TEST				0	0
09	OTHER				186,192	201,507
	TOTAL				190,978	413,128
	NUM OF SYSTEMS				1,815	3,570
	AVG PER SYSTEM				105	116

AN/PRC-112
COST DRIVERS
CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 95 AMDF UNIT PRICE	FY 95 QTY	EXTENDED COST (QTY * UNIT PRICE)	AVERAGE COST PER SYSTEM	AVERAGE QUANTITY PER 100 SYSTEMS	FY 94-95 TWO YEAR AVERAGE QTY	FY 94-95 TWO YEAR AVERAGE EXTENDED COST
1.	6135012354168	BATTERY,NONRECHARG	09	Z		G22TJ	36.71	5,489.10	201,505	56.44	153.7563	5,375.11	197,320
2.	5965013028522	HEADSET,ELECTRIC	03B	Z		Q2200	128.67	139.00	17,885	5.01	3.8936	84.00	10,808
3.	5985013028524	ANTENNA	03C	Z		G22QA	48.98	258.00	12,637	3.54	7.2269	169.50	8,302
4.	5985013028523	ANTENNA	03C	Z		Q2200	63.14	115.00	7,261	2.03	3.2213	60.00	3,788
5.	5895013546335	CASE,ELECTRONIC COM	03J	Z		Q22QA	45.98	57.00	2,621	0.73	1.5966	28.50	1,310

NUMBER OF SYSTEMS 3,570

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

241,911	100.0%	COST DRIVERS
0	0.0%	OTHERS
241,911		TOTAL

AN/PRC-112
COST DRIVERS
CLASS IX REPARABLES (DLRs)

NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 95AMDF UNIT PRICE W/O CREDIT	FY 95AMDF UNIT PRICE W/CREDIT	FY 95 QTY	EXTENDED COST W/CREDIT (QTY * UNIT PRICE)	AVERAGE COST (W/CREDIT) PER SYSTEM	AVERAGE QUANTITY PER 100 SYSTEMS	FY 94-95 TWO YEAR AVERAGE QTY	FY 94-95 TWO YEAR AVERAGE EXTENDED COST (W/CREDIT)
1. 5820012795447	RECEIVER-TRANSMI	03E	D	E	G24Q1	4,626.00	2,252.86	76.00	171,217	47.96	2.1289	38.00	85,609

NUMBER OF SYSTEMS 3,570

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

171,217	100.0%	COST DRIVERS
0	0.0%	OTHERS
171,217		TOTAL

The following table summarizes FY 95 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture.

AN/PRC-112
FY 95 DEPOT MAINTENANCE COSTS

COST ELEMENTS	END ITEM MAINTENANCE				SECONDARY ITEM MAINTENANCE		
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER
CIVILIAN LABOR	0	29,601	0	0	0	0	0
MILITARY LABOR	0	0	0	0	0	0	0
MATERIEL	0	16,803	0	0	0	0	0
OVERHEAD	0	39,033	0	0	70	0	0
CONTRACT	0	0	0	0	0	0	0
OTHER	0	697	0	0	0	0	0
TOTAL	0	86,134	0	0	70	0	0
QTY COMPLETED	0	124	0	0	0	0	0
AVG COST	0	695	0	0	0	0	0

The table below summarizes FY 95 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM DS/GS LABOR HOURS by the Army Manpower Cost System (AMCOS) E-5 composite standard rate ($16.98). CIVILIAN LABOR COSTS are a summation from the source data.

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FY 95 INTERMEDIATE MAINTENANCE COSTS

MACOM	DS/GS LABOR HOURS	DS/GS LABOR COSTS	CIVILIAN LABOR HOURS*	CIVILIAN LABOR COSTS*	CIVILIAN LABOR COST/HOUR
FORSCOM	747	12,684	2	41	20.50
USAREUR	403	6,843			
EUSA	301	5,111			
USARPAC	25	425			
USARSO	3	51			
USASOC	39	662			
TRADOC	0	0	223	4,927	22.09
ARNG	0	0			
USAR	0	0			
TOTAL ARMY	1,518	25,776	225	4,968	22.08

*TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 91-95 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 95 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. Blank columns indicate the system was not tracked in the OSMIS database during that fiscal year.

AN/PRC-112
FIVE YEAR DEPOT MAINTENANCE COSTS

COST ELEMENTS	END ITEM MAINTENANCE					SECONDARY ITEM MAINTENANCE				
	FY 91	FY 92	FY 93	FY 94	FY 95	FY 91	FY 92	FY 93	FY 94	FY 95
CIVILIAN LABOR				0	29,601				0	0
MILITARY LABOR				0	0				0	0
MATERIEL				0	16,803				0	0
OVERHEAD				0	39,033				0	70
CONTRACT				0	0				0	0
OTHER				0	697				0	0
TOTAL				0	86,134				0	70
QTY COMPLETED				0	124				0	0
AVG COST				0	695				0	0

The table below summarizes FY 91-95 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance (CIV) are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 95 constant dollars. Civilian labor costs are a summation from the source data. Blank columns indicate the system was not tracked in the OSMIS database during that fiscal year.

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FIVE YEAR INTERMEDIATE MAINTENANCE COSTS

MACOM	DIRECT/GENERAL SUPPORT INTERMEDIATE MAINTENACE (DS/GS)					CIVILIAN MAINTENANCE (CIV)				
	FY 91	FY 92	FY 93	FY 94	FY 95	FY 91	FY 92	FY 93	FY 94	FY 95
FORSCOM				0	12,684				0	41
USAREUR				3,002	6,843					
EUSA				3,651	5,111					
USARPAC				0	425					
USARSO				0	51					
USASOC				0	662					
TRADOC				0	0				0	4,927
ARNG				0	0					
USAR				0	0					
TOTAL ARMY				6,653	25,776				0	4,968
LABOR HRS				390	1,518				0	225
COST PER HR				17.06	16.98				0.00	22.08

The following list shows the FY 95 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the Master File Maintenance (MFM). AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 95 TOTAL COST TO REBUILD/OVERHAUL by the FY 95 QTY COMPLETED.

AN/PRC-112
FY 95 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS

NSN	NOMENCLATURE	FY 95 AMDF PRICE	FY 95 TOTAL COST TO REBUILD/ OVERHAUL	FY 95 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL

NO DATA

The following list shows the FY 95 Secondary Item Maintenance - Repairs Cost Drivers recorded in Master File Maintenance (MFM). AVG COST TO REPAIR is calculated by dividing the costs in FY 95 TOTAL COST TO REPAIR by the FY 95 QTY COMPLETED.

AN/PRC-112
FY 95 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS

NSN	NOMENCLATURE	FY 95 AMDF PRICE	FY 95 TOTAL COST TO REPAIR	FY 95 QTY COMPLETED	AVG COST TO REPAIR
5820-01-279-5447	RECEIVER-TRANSMI	4,928	70	0	0

The following list shows the FY 91-95 Secondary Item - Rebuild/Overhaul Cost Drivers recorded in MFM. These five year Cost Drivers were revised from the previous years' report. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 91-95 TOTAL COST TO REBUILD/OVERHAUL by the FY 91-95 QTY COMPLETED.

AN/PRC-112
FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS

NSN	NOMENCLATURE	FY 95 AMDF PRICE	FY 91-95 TOTAL COST TO REBUILD/ OVERHAUL	FY 91-95 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL

NO DATA

The following list shows the FY 91-95 Secondary Item - Repair Cost Drivers recorded in MFM. These five year cost drivers were revised from the previous years' report. The AVG COST TO REPAIR is calculated by dividing the costs in FY 91-95 TOTAL COST TO REPAIR by the FY 91-95 QTY COMPLETED.

AN/PRC-112
FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS

NSN	NOMENCLATURE	FY 95 AMDF PRICE	FY 91-95 TOTAL COST TO REPAIR	FY 91-95 QTY COMPLETED	AVG COST TO REPAIR
5820-01-279-5447	RECEIVER-TRANSMITTE	4,928	70	0	0

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